

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-13 (Canceled).

Claim 14 (Currently Amended): An-A machine readable information storage recording medium embodied as a recordable optical disc for access by use with an optical disc drive, wherein said recordable optical disc has an outline of two-adhesive substrates, and comprises a center hole, a clamp area around the center hole, and a read-out face around the clamp area, said read-out face is located at one of the two-adhesive substrates, the recordable optical disc comprises a spiral track on which sectors are placed, and data can be recorded on or reproduced from the sectors using a laser, said data including control information and video object data, the information storage recording medium comprising:

a data area storing:

 a plurality of error correction code blocks including the video object data, said video object data having at least one of video object units, wherein a predetermined number of the sectors form each error correction code block, and each of said sectors has a predetermined size; and

 a control information recording area storing said control information, the control information managing the video object data and including an AV file information table having a first area storing object stream information, and a second area storing AV file information describing information on the video object data, the AV file information including a plurality of object information, and a plurality of object information search pointers associated with the plurality of object information, wherein:

 an error correction code block address relates to the predetermined number of said sectors,

each said object information includes time map information having time map general information, one or more time entries, and one or more video object unit entries,

said time map general information includes information indicating a time offset for the time map information, and

each of the time entries includes numeral information on a corresponding video object unit entry of the video object data, and time difference information describing a time difference between a calculated presentation time and a presentation time of a corresponding video object unit of the video object units, and

wherein the control information is provided to control recording, playing back, or editing the video object data by an information recording/reproducing apparatus, the video object data is accessed according to the control information.

Claim 15 (Previously Presented): An information recording method for recording information on an information storage medium including:

a data area configured to store:

a plurality of error correction code blocks including video object data, said video object data being configured to have at least one of video object units, wherein a predetermined number of sectors form each error correction code block, and each of said sectors has a predetermined size, and

a control information recording area configured to store said control information, the control information being configured to manage the video object data and including an AV file information table having a first area configured to store object stream information, and a second area configured to store AV file information configured to describe information on the video object data, the AV file information including a plurality of object information, and

a plurality of object information search pointers associated with the plurality of object information, wherein:

an error correction code block address relates to the predetermined number of said sectors,

each said object information includes time map information having time map general information, one or more time entries, and one or more video object unit entries,

said time map general information includes information indicating a time offset for the time map information, and

each of the time entries includes numeral information on a corresponding video object unit entry of the video object data, and time difference information describing a time difference between a calculated presentation time and a presentation time of a corresponding video object unit of the video object units,

the information recording method comprising:

generating the video object data;

recording the generated video object data into the data area;

generating the control information; and

recording the generated control information, including the plurality of object information, into the control information recording area.

Claim 16 (Previously Presented): An information reproducing method for reproducing information recorded on an information storage medium that includes,

a data area including:

a plurality of error correction code blocks including video object data, said video object data having at least one of video object units, wherein

a predetermined number of sectors form each error correction code block, and each of said sectors has a predetermined size, and

a control information recording area including said control information, the control information being configured to manage the video object data and including an AV file information table having a first area storing object stream information, and a second area storing AV file information configured to describe information on the video object data, the AV file information including a plurality of object information, and a plurality of object information search pointers associated with the plurality of object information, wherein:

an error correction code block address relates to the predetermined number of said sectors,

each said object information includes time map information having time map general information, one or more time entries, and one or more video object unit entries,

said time map general information includes information indicating a time offset for the time map information, and

each of the time entries includes numeral information on a corresponding video object unit entry of the video object data, and time difference information describing a time difference between a calculated presentation time and a presentation time of a corresponding video object unit of the video object units,

the information reproducing method comprising:

reproducing the control information, including the plurality of object information, from the control information recording area; and

reproducing the video object data from the data area based on the reproduced control information.

Claim 17 (Previously Presented): An information reproducing apparatus for reproducing information recorded on an information storage medium that includes a data area including:

a plurality of error correction code blocks including video object data, said video object data having at least one of video object units, wherein a predetermined number of sectors form each error correction code block, and each of said sectors has a predetermined size, and

a control information recording area including said control information, the control information being configured to manage the video object data and including an AV file information table having a first area storing object stream information, and a second area storing AV file information configured to describe information on the video object data, the AV file information including a plurality of object information, and a plurality of object information search pointers associated with the plurality of object information, wherein:

an error correction code block address relates to the predetermined number of said sectors,

each said object information includes time map information having time map general information, one or more time entries, and one or more video object unit entries,

said time map general information includes information indicating a time offset for the time map information, and

each of the time entries includes numeral information on a corresponding video object unit entry of the video object data, and time difference information describing a time difference between a calculated presentation time and a presentation time of a corresponding video object unit of the video object units,

the information reproducing apparatus comprising:

a first reproducer configured to reproduce the control information, including the plurality of object information, from the control information recording area; and

a second reproducer configured to reproduce video object data from the data area based on the control information reproduced by the first reproducer.

Claim 18 (Currently Amended): ~~An~~ A machine readable information storage recording medium embodied as a recordable optical disc for ~~access by use with~~ an optical disc drive, wherein said recordable optical disc has an outline of two-adhesive substrates each having 0.6 mm thickness, and comprises a center hole, a clamp area around the center hole, a lead-in area around the clamp area, and a read-out face around the lead-in area, said read-out face is located at one of the two-adhesive substrates and the one substrate is made of a material or polycarbonate through which a laser can pass, the one substrate of said read-out face comprises a spiral track on which sectors are placed, and data can be recorded on or reproduced from the sectors using the laser, said data including control information and video object data, the information storage recording medium comprising:

a data area storing:

a plurality of error correction code blocks including the video object data, said video object data having at least one of video object units, wherein

a predetermined number of the sectors from each error correction code block, and each of said sectors has a predetermined size; and

a control information recording area storing said control information, the control information managing the video object data and including an AV file information table having a first area storing object stream information, and a second area storing AV file information describing information on the video object data, the AV file information

including a plurality of object information, and a plurality of object information search pointers associated with the plurality of object information, wherein:

an error correction code block address relates to the predetermined number of said sectors,

each said object information includes time map information having time map general information, one or more time entries, and one or more video object unit entries,

said time map general information includes information indicating a time offset for the time map information, and

each of the time entries includes numeral information on a corresponding video object unit entry of the video object data, and time difference information describing a time difference between a calculated presentation time and a presentation time of a corresponding video object unit of the video object units,

wherein the control information is provided to control recording, playing back, or editing the video object data by an information recording/reproducing apparatus, the video object data is accessed according to the control information.